

Appl. No.: 10/606,317
TC/A.U.: 3711 Docket No.: C02-29
Reply to Office Action of September 15, 2004

LISTING OF CLAIMS

Please amend the claims as follows:

What is claimed is:

1. A golf club head comprising:
a body made of a first material having a front face of variable stiffness, and a rear cavity extending rearward from the front face;
a composite core comprised of a second material less dense and more flexible than the first inserted into the rear cavity; and
the composite core inflated and expanded by a pressurized gas wherein at least a portion of the composite core biasly juxtaposes against the front face to form a hollow body having an internal volume between 35cc to 50cc.
2. The club head of claim 1, wherein the composite core is made from a lightweight material such as plastic or carbon graphite.
3. The club head of claim 2, wherein the composite core material has a density equal or less than 4.5 gm/cc.
4. The club head of claim 1, wherein the stiffness of the front face is greatest at the face center, and becomes progressively more flexible away from the face center.
5. The club head of claim 1, wherein the Coefficient of Restitution varies across the front face to normalize ball speed and provide for an enlarged sweet zone.
6. The club head of claim 5, wherein the maximum Coefficient of Restitution, ranges between about 0.8 to about 0.9.
7. The club head of claim 1, wherein the pressurized gas is air.

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8. The club head of claim 1, wherein the rear cavity comprises an opening that is sealed by a visible portion of the composite core.

9. The club head of claim 1, wherein the elasticity of the material of the composite core may cooperate with the front face to create a varying COR across the front face for normalizing ball speed and creating an enlarged sweet zone.

10-22. (Cancelled)